

1 R	<b>MISCELLANEOUS</b>	6	.Airplane and helicopter sustained
1 N	.Noise abatement	7 R	..Convertible
1 A	.Lightning arresters and static eliminators	7 A	...Rotary wing
1 TD	.Trailing devices	7 B	...Tail sitters
2	<b>COMPOSITE AIRCRAFT</b>	7 C	...Tilting wing
3	.Trains	8	.Airplane and auto-rotating wing sustained
3.1	<b>MISSILE STABILIZATION OR TRAJECTORY CONTROL</b>	9	.Airplane and paddle wheel sustained
3.11	.Remote control	10	.Airplane and cylindrical rotor sustained
3.12	..Trailing wire	11	.Airplane and beating wing sustained
3.13	..Beam rider	12.1	.Airplane and fluid sustained
3.14	..Radio wave	12.2	..Circular
3.15	.Automatic guidance	12.3	..Dual propulsion
3.16	..Optical (includes infrared)	12.4	..Thrust tilting
3.17	...Optical correlation	12.5	..With thrust diverting
3.18	..Celestial navigation	12.6	..Channel wing
3.19	..Radio wave	13	.Airplane sustained
3.2	..Inertial	14	..Aerial torpedoes
3.21	..Attitude control mechanisms	15	..Fluid propelled
3.22	...Fluid reaction type	16	..Glider
3.23	.Stabilized by rotation	17.11	.Helicopter or auto-rotating wing sustained, i.e., gyroplanes
3.24	.Externally mounted stabilizing appendage (e.g., fin)	17.13	..Automatic or condition responsive control
3.25	..Removable	17.15	..With safety lowering device
3.26	..Sliding	17.17	..With landing, mooring, or nonaerial propelling or steering gear
3.27	..Collapsible	17.19	..With auxiliary propulsion, counter-torque or steering device
3.28	...Longitudinally rotating	17.21	...Auxiliary rotor
3.29	...Radially rotating	17.23	..Having plural lifting rotors
3.3	..Extending beyond rear of missile	17.25	..Lifting rotor having lift direction varying means
158 R	<b>SPACECRAFT</b>	17.27	..Lifting rotor supports, e.g., pylons
159	.Space station	19	.Paddle wheel sustained
160	.Reentry vehicle	20	..Feathering
161	..Rendezvous and docking	21	.Cylindrical rotor sustained
162	..Manned	22	.Beating wing sustained
163	...Environmental control	23 R	.Fluid sustained
164	.Attitude control	23 A	..Lifting thrusters
165	..By gyroscope or flywheel	23 B	..Dual propulsion means, horizontal and vertical
166	..By magnetic effect	23 C	..Circular configuration
167	..By gravity gradient	23 D	..Thrust diverters
168	..By solar pressure	4 A	.Body attached
169	..By jet motor	24	<b>AIRCRAFT, LIGHTER-THAN-AIR</b>
170	..By nutation damper		
171	..With attitude sensor means		
172	.With propulsion		
173	.With solar panel		
158 A	.Exterior surface air resistance heat control		
4 R	<b>AIRCRAFT, HEAVIER-THAN-AIR</b>		
5	.Airplanes, weight diminished by bouyant gas		

25	.Airships with sustaining wings	50	<b>AIRCRAFT PROPULSION AND STEERING ON LAND OR WATER</b>
26	.Airship and helicopter sustained		
27	.Airship and paddle wheel sustained	51	<b>AIRCRAFT, STEERING PROPULSION</b>
28	.Airship and beating wing sustained	52	.Fluid
29	.Airship and fluid sustained	53 R	<b>AIRCRAFT POWER PLANTS</b>
30	.Airships	54	.Mounting
31	.Balloons	55	.Arrangement
32	..With parachutes	56	..Tilting
33	..Captive	57	.Radiator arrangement
34 R	<b>AIRCRAFT SUSTENTATION</b>	58	.Auxiliary
35 R	.Sustaining airfoils	59	.High altitude
36	..Lifting fuselages	60	.Transmission of power
37	..Lifting struts	61	.Power plant using airship gas as fuel
38	..Resiliently mounted	53 A	.Starters
39	..Rotatable	53 B	.Air intakes
198	..With lift modification	62	<b>AIRCRAFT PROPULSION</b>
199	...By vortex generator or dissipator	63	.Launching
200	...By characteristic of airfoil's skin	64	.Manual
201	...Variable	65	.Screw
202	...With landing gear	66	..Tilting
203	...Condition responsive	67	..Body encircling
204	...By controlling boundary layer	68	..Elongated
205	....With ionic or electrostatic surface	69	..Contra-propeller arrangements
206	....With rotating member	70	.Paddle wheel
207	....With blowing	71	.Reciprocating propeller
208	.....And suction	72	.Beating wing
209	.....With suction	73 R	.Fluid
210	.....With nose slot	74	..Explosive jet
211	.....Having trailing edge flap	73 B	..Vacuum induced by radial flow
212	.....Having trailing edge flap	73 C	..Radial outward and downward flow
213	...By flap and/or spoiler	75 R	<b>AIRCRAFT CONTROL</b>
214	.....At leading edge	76 R	.Automatic
215	.....At trailing edge	175	..Electric course control
216	.....Variable gap type, e.g., "Fowler Flap"	176	...Spaceship control
217	.....Plural, relatively pivotable	177	...Multiple-axis altitude stabilization
218	....Area	178	....Trim control
219	....Camber	179	....By change in bank
45 R	..Arrangement	180	...By change in altitude
46	..Variable	181	....By change in pitch, angle of attack or flight path
47	....Dihedral	182	....By change in speed
48	....Incidence	183	...Of aircraft on its landing course
49	....Folding	184	....By steering or yaw
45 A	...Canard	185	....And vertical glide path control
35 A	..Compressible flow	186	....Vertical glide path control
34 A	.Annular airfoils	187	.....With "flare-out" detection
		188	.....Slope control by throttle
		189	...By remote radio signal

190	....Of pilotless aircraft	97	..Buoyancy varying
191	...Acceleration control	98	..Gas bag inflation
192	..With "dead-zone" control	99	..Gas release
193	..With "softener" circuit	75 A	.Flutter prevention
194	..Monitoring circuit or response	100 R	<b>LANDING GEAR</b>
195	....Self-adaptive control	101	.Amphibian
196	...Override of automatic control by human pilot	102 R	.Retractable
197	....By engaging manual control system	102 A	..Interconnected elements
78	..Fluid	102 SL	..Strut locks
79	..Gyroscope actuated	102 SS	..Strut shortening
80	..Gravity actuated	103 R	.Wheel
81	..Operated by landing	104 R	..Resiliently mounted
82	..Vane operated	104 CS	...Coil spring
76 A	..Motor torque control of flaps or tabs	104 FP	...Fluid pressure
76 B	..Velocity operated devices	104 LS	...Leaf spring
76 C	..Gust compensators	103 S	..Prerotation
76 J	..Steerable jets	103 W	..Crosswind gear
220	..Pilot operated	105	.Water landing
221	..Control system	106	..Flying boat
222	...Other than hand or foot actuated	107	..Emergency
223	...With feel	108	.Skids
224	...With locking means	109	.Tail supports
225	...With dual purpose surface structure (e.g., elevons)	100 C	.Endless track
226	...Fluid	100 A	.Inflatable
227	....With electric control	110 R	<b>RETARDING AND RESTRAINING DEVICES</b>
228	...Electric	111	.Wheel brake arrangement
229	...Dual	112	.Water brake arrangement
230	...With variable output	113	.Aerodynamic retarders
231	..With interengaging gearing	110 A	.Brake
232	..With cable and linkage	110 B	.Thrust reversers
233	...Cable	110 C	.Cable or net support
234	..Controller	110 D	.Aerodynamic braking
235	...Rudder bar and pedal	110 E	.Landing platforms
236	...Electrical pickup	110 F	.Snares
237	...Three-way steering, single control	110 G	.Arresting hoods
87	..Rudders and empennage	110 H	.Friction brakes
88	..Rudders universally mounted	114 R	<b>LANDING FIELD ARRANGEMENT</b>
89	..Elevators both front and rear	115	.Mooring devices
90 R	..Ailerons and other roll control devices	116	..Movable
90 A	...Roll control spoilers	114 B	.Blast deflectors
90 B	...Balanced air pressure	117 R	<b>AIRCRAFT STRUCTURE</b>
91	.Vertical fins	118.1	.Load (e.g., cargo) accommodation
92	.Stabilizing propellers	118.2	..Removable, load bearing, airframe section
93	.Stabilizing weights	118.5	.Passenger or crew accommodation
94	..Ballast storage and release	118.6	..Seating arrangement: berth or berthage
95	..Ballast making	119	.Fuselage and body construction
96	.Airship control	120	..Sectional
		121	..Shields and other protective devices
		122 R	..Seats and safety belts
		122 A	...Ejection seats
		122 AB	....Catapult and rocket combined

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|--------|---|-------|---|
| 122 AC | .....Catapult                                     | 143   | ..Garment attached                          |
| 122 AD | .....Rocket                                       | 144   | ..Aircraft element convertible to parachute |
| 122 AE | ....Automatic sequence                            | 145   | ..Canopy construction                       |
| 122 AF | .....Canopy release                               | 146   | ..Inflated bracing                          |
| 122 AG | .....Restraint positioning and protective devices | 147   | ..Storage and release                       |
| 122 AH | .....Seat separation                              | 148   | ...Packs                                    |
| 122 B  | ...Safety belts                                   | 149   | ...Opening devices                          |
| 123    | .Airfoil construction                             | 150   | ...Timing mechanism                         |
| 124    | ..Sectional                                       | 151 R | ..Harness                                   |
| 125    | .Airship hull construction                        | 151 A | ...Parachute harness connection             |
| 126    | .Airship skin construction                        | 151 B | ...Parachute load releasing                 |
| 127    | .Airship load attachment                          | 152   | ..Control devices                           |
| 128    | .Airship gas cell construction and arrangement    | 138 A | .Rotating vanes                             |
| 129.1  | .Details  | 153 R | <b>KITES</b>                                |
| 129.2  | ..Fire prevention devices                         | 154   | .Airplane type                              |
| 129.3  | ..Windows   | 155 R | .Accessories                                |
| 129.4  | ..Closures  | 155 A | ..Kite controls                             |
| 129.5  | ...Door   | 153 A | .Rotating                                   |
| 118.3  | ....Displaceable to function as ramp              |       |   |
| 129.6  | ..Steps   |       |   |
| 130    | ..Aerodynamic resistance reducing                 |       |   |
| 131    | ..Joints and connections                          |       |   |
| 132    | ..Skin fastening devices                          |       |   |
| 133    | ..Materials of construction                       |       |   |
| 134 R  | .Ice prevention                                   |       |   |
| 134 A  | ..Flexible surfaces                               |       |   |
| 134 B  | ..Heating fluid in airfoil                        |       |   |
| 134 C  | ..Deicing fluid on airfoil exterior               |       |   |
| 134 D  | ..Electric  |       |   |
| 134 E  | ..Nature of surface                               |       |   |
| 134 F  | ..Initiators and indicators                       |       |   |
| 135 R  | .Fuel supply                                      |       |   |
| 135 A  | ..Aircraft refueling                              |       |   |
| 135 B  | ..Flexible containers                             |       |   |
| 135 C  | ..Fuel balancing systems                          |       |   |
| 136    | .Material discharging and diffusing               |       |   |
| 137.1  | .Passenger or cargo loading or discharging        |       |   |
| 137.2  | ..Passenger                                       |       |   |
| 137.3  | ..Aerial cargo unloading by parachute extraction  |       |   |
| 137.4  | ..Releasable, externally mounted cargo            |       |   |
| 117 A  | .Skin cooling                                     |       |   |
| 138 R  | <b>SAFETY LOWERING DEVICES</b>                    |       |   |
| 139    | .Entire aircraft                                  |       |   |
| 140    | .Passenger compartment                            |       |   |
| 141    | ..Seat  |       |   |
| 142    | .Parachutes                                       |       |   |

**CROSS-REFERENCE ART COLLECTIONS**

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|-----|---|
| 900 | <b>LIGHTWEIGHT, WINGED, AIR VEHICLE (E,G,. ULTRALIGHT OR HANG GLIDER)</b> |
| 901 | .Having delta shaped wing   |
| 902 | .Having parachute type wing   |
| 903 | .Powered  |
| 904 | .Miscellaneous hardware or control  |
| 905 | <b>INFLATABLE EVACUATION SLIDE</b>  |

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